

Searching PAJ

페이지 1 / 2

## PATENT ABSTRACTS OF JAPAN

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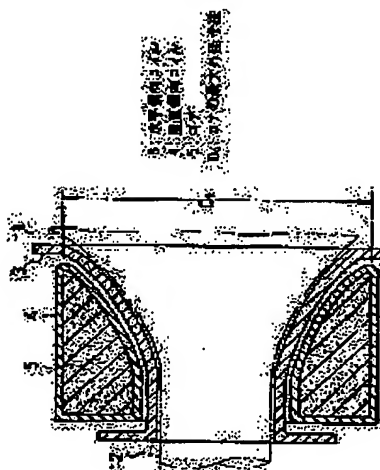
## (54) DEFLECTING YOKE

## (57) Abstract:

PURPOSE: To reduce the rise in the temperature of a deflecting yoke, by increasing the longitudinal section area of a core while maintaining the interchangeability of the yoke with a conventional deflection yoke, to diminish the iron loss of the former yoke and augment its heat transfer coefficient.

CONSTITUTION: The inside form of a core 5 is made the same as that of a conventional core. The outside form of the core 5 is made cylindrical and has a diameter equal to the maximum outside diameter D0 of the conventional core. The thickness of the core 5 is increased as a whole to augment the longitudinal section area of the core to reduce the magnetic flux density in the core as to the same deflection current. The reduction in the magnetic flux density results in diminishing the iron loss of the core to decrease the quantity of heat

generated therein. Since the quantity of the core 5 is increased, the rise in its temperature is reduced so that the rise can be suppressed to be almost equal to that in the conventional core even if the frequency of a horizontal deflection current for the core 5 is doubled. Since the inside form and maximum outside diameter of the core 5 are made the same as those of the conventional core, these cores are interchangeable with each other.



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Searching PAJ

페이지 2 / 2

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